Amendments to the Claims:

The following claims will replace all prior versions of the claims in this application (in the unlikely event that no claims follow herein, the previously pending claims will remain):

1. (Currently Amended) A method of forming a metal line layer in a semiconductor device, comprising the steps of:

depositing a metal line layer on a semiconductor structure;

forming an insulating film and a photoresist material <u>pattern</u> on the metal line layer in a sequential manner;

patterning the insulating film by using the patterned photoresist material; patterning the metal line layer by using the photoresist material <u>pattern</u> and the <u>patterned</u> insulating film as a mask, wherein a metal polymer is formed on the pattern

insulating film;

removing the photoresist material pattern; and

etching removing the patterned insulating film in an isotropic manner by an isotropic etching process so that the metal polymer is removed together with the insulating film.

- 2. (Original) The method of forming a metal line layer in a semiconductor device according to claim 1, wherein the metal line layer has a multi-layered structure including a Ti/TiN layer and an Al layer.
- 3. (Original) The method of forming a metal line layer in a semiconductor device according to claim 2, wherein a first Ti/TiN layer, an Al layer, and a second Ti/TiN layer are sequentially deposited in the metal line layer.
- 4. (Original) The method of forming a metal line layer in a semiconductor device according to claim 1, wherein the insulating film includes a nitride film.
- 5. (Original) The method of forming a metal line layer in a semiconductor device according to claim 1, wherein a top layer in the semiconductor structure includes an oxide film.

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6. (Original) The method of forming a metal line layer in a semiconductor device according to claim 1, wherein the method further comprises a step of forming a BARC layer between the insulating film and the photoresist material formation in order to prevent scattered reflection of light during the patterning of the photoresist material.

- 7. (Currently Amended) The method of forming a metal line layer in a semiconductor device according to claim 6, wherein the BARC layer and the insulating film are etched patterned in a single step by using reactive plasma including CHF₃/CF₄/Ar gases.
- 8. (Currently Amended) The method of forming a metal line layer in a semiconductor device according to claim 6, wherein the BARC layer and the insulating film are etched patterned in a single step by using reactive plasma including C_xF_y (where x and y are any natural number)/O₂/Ar gases.
- 9. (Currently Amended) The method of forming a metal line layer in a semiconductor device according to claim 6, wherein the BARC layer is etched patterned in a dry manner by using reactive plasma including $\Theta_{24}N_2/A_F$ O_2N_2/A_F gases, and the insulating film is etched patterned in a dry manner by using reactive plasma including CHF₃/CF₄/Ar gases or C_xF_y (where x and y are any natural number)/ O_2/A_F gases.
- 10. (Currently Amended) The method of forming a metal line layer in a semiconductor device according to claim 1, wherein a down flow method using O_2/CF_4 gases is adapted used in the step of etching removing the insulating film.
- 11. (Currently Amended) The method of forming a metal line layer in a semiconductor device according to claim 1, wherein the method further comprises a cleaning process in order to remove remaining metal polymers and/or metal residues after the step of etching removing the insulating film.